

WHAT IS CLAIMED IS:

1. A method for making plastic floor tiles of different thickness with one round of processing comprising plural long materials of polyvinyl chloride (PVC) with one color or different colors, said long PVC heated properly and carried to a compress-extending machine composed of several press roller units, a first one of said press roller unit consisting of two press rollers which properly compress said long PVC to extend and form a first half-finished product, said first 5 half-finished product continuously moved to a second one of said press roller units also composed of two press rollers, with a first heating device provided beside one of said two press rollers, said first half-finished product heated and softened by said first heating device and compressed to 10 extend by said second press roller unit to form a second half-finished product, said second half finished product carried through and compressed by a third press roller unit containing two press rollers, with a second heating device positioned beside one of these two said press rollers, two said 15 heating devices able to generate a high temperature up to 800 °C for heating and softening said first and second half-finished products in a balanced condition, said high temperature adjustable in accordance with the thickness of said plastic floor tile required, said plastic floor tiles of 20 different thickness (from 0.5mm to 3mm) capable to be made 25

with one round of processing.

2. The method of making plastic floor tiles of different thickness with one round of processing as claims in Claim 1, wherein the temperature of said heating devices is no less
5 than 220°C.

3. The equipment for making plastic floor tiles of different thickness with one round of processing including a compress-extending machine, said compress extending machine composed of a plurality of press roller units, a first
10 one of said press roller unit consisting of two press rollers, said first press roller unit compressing long PVC to extend and form a first half-finished product, then said first half-finished product moved to a second one of said press roller units to be compressed into a comparatively thick
15 product; and,

Characterized by a heating device provided beside said press roller for supplying high temperature to said first and second half-finished products to let them completely heated by balanced temperature so as to make plastic floor tiles with
20 different thickness.

4. The equipment for making plastic floor tiles of different thickness with one round of processing as claimed in Claim 3, wherein a heat-increasing device provided in front of each said press roller.